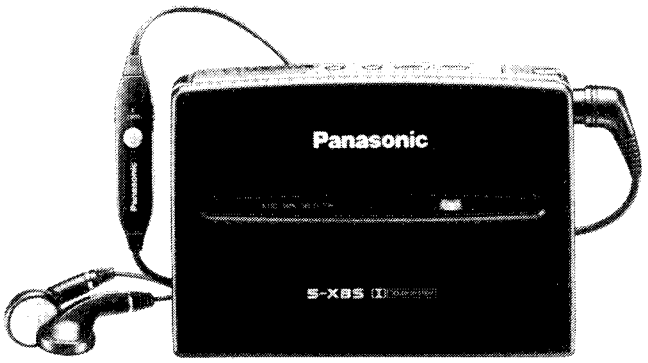
ORDER NO. AD9002036C2

Service Manual

Mini Cassette

Stereo Cassette Player

RQ-S11



Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	

MECHANISM SERIES (AR90)

■ SPECIFICATIONS

Power Requirement:	AC; with an optional AC adaptor (E)...RP-AC11E, (EB)...RP-AC11EB Battery; with one "AA" size battery (DC: 1.5V) Rechargeable Battery; with an included Rechargeable Battery; 1.2V
Power Output:	6mW+6mW
Input:	DC IN; 1.5V (mini jack, ◇-⊖-⊕)
Output:	Headphones; 16Ω (φ3.5)
Dimensions:	106.6 (W) × 72.6 (H) × 19.5 (D) mm
Weight:	145g (with Rechargeable Battery)
Frequency Response:	15~20,000Hz (with a normal tape) 15~20,000Hz (with a CrO_2 type tape) 15~20,000Hz (with a Metal tape)
Tape Speed:	4.8cm/s
Track System:	4-track 2-channel stereo playback
Charger:	Input; (E)...AC 220V, 50Hz 4W RP-BC155EY-0 Input: (EB)...AC 240V, 50Hz 4W RP-BC155EBYA

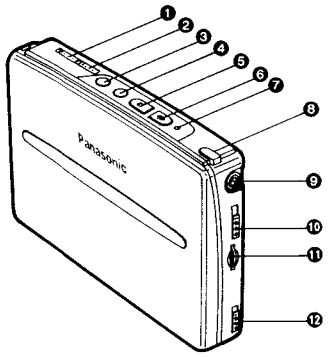
Design and specifications are subject to change without notice.

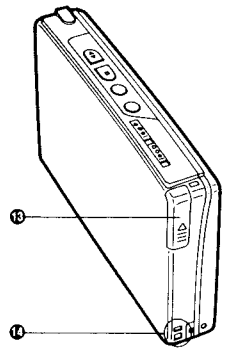
Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

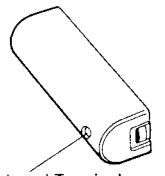
CONTENTS

LOCATION OF CONTROLS

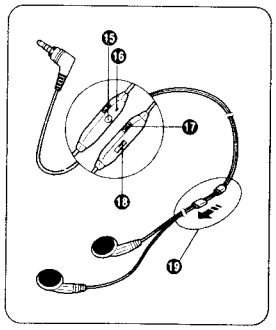




Accessory (Battery Case)



External Terminal
(DC IN 1.5V, ◇-⊖-◇)

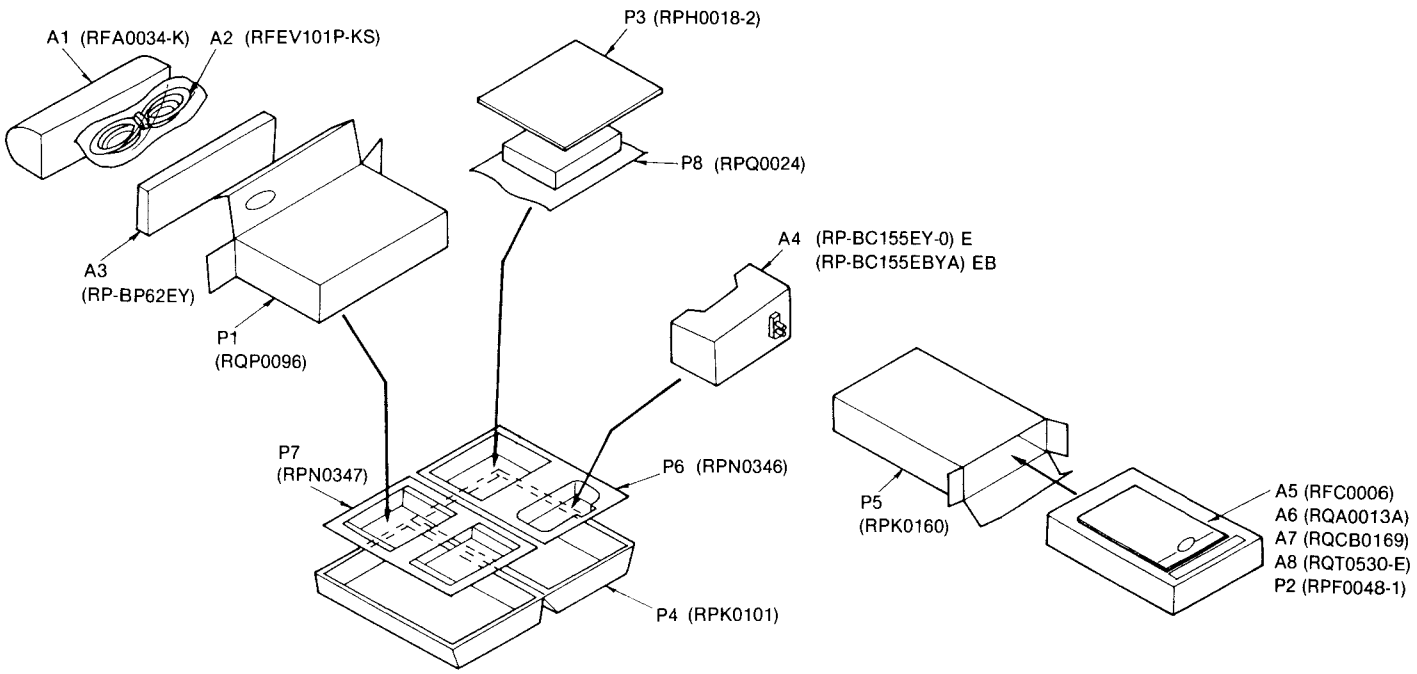


❶ Reverse Mode Switch (REV MODE)
❷ Hold Switch (HOLD)
❸ Rewind Button (REW)
❹ Fast Forward Button (FF)
❺ Stop Button (■ STOP)
❻ Play/Direction Button (◄► PLAY/DIR)
❼ Operation/Battery Check Indicator (OPR/BATT)
❽ Push Open Button (PUSH OPEN)
❾ Headphones Jack (∩) 16Ω φ3.5
❿ S-XBS Switch (S-XBS)
⓫ Volume Control (VOLUME)
⓬ Dolby* Noise Reduction Button (DOLBY NR)
⓭ Rechargeable Battery Cover
⓮ Connection part for Battery Case

Stereo Earphones with remote controller
⓯ Remote Control Button
⓰ Operation Indicator
⓱ Hold Switch
⓲ Volume Control
⓳ Slider
When not in use, slide to prevent entanglement of the cord.

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⊡ are trademarks of Dolby Laboratories Licensing Corporation.

PACKING



■ PROCEDURE FOR THE REPLACEMENT OF THE MECHANISM BLOCK

- **How to replace the mechanism block**

The mechanism block is supplied without other parts as a semi-assembly. The head block, motor and belt are supplied separately from the mechanism block.
If the mechanism block is exchanged as a replacement assembly, follow the preparation procedure below.

Preparation procedure

Remove the head block, motor and belt from the mechanism to be replaced and replace those parts to the new mechanism block.
(Refer to the "PROCEDURES FOR DISASSEMBLY OF THE MAIN PARTS ON THE MECHANISM".

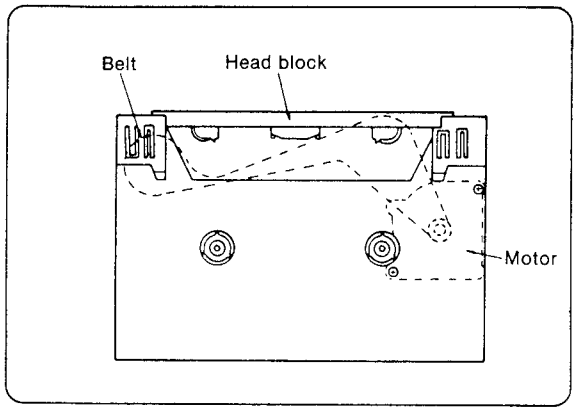
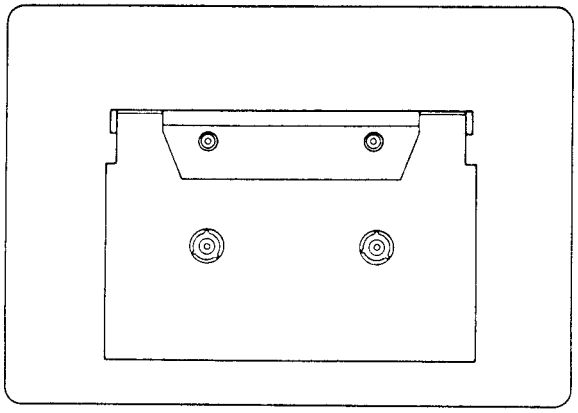


Fig. 1



Mechanism block

Fig. 2

※ The adjustment of the mechanism block is unnecessary after replacement.

- **How to replace the head block**

The head and pinch roller are supplied together in the head block. The pinch roller is also supplied separately.

Preparation procedure

The head block for replacement is not supplied with a holder as shown in the figure below. Therefore, remove the holder from the block to be repaired and mount it to the new head block. Then, proceed to replace the head block. (Refer to "PROCEDURES FOR DISASSEMBLY OF THE MAIN PARTS ON THE MECHANISM".)

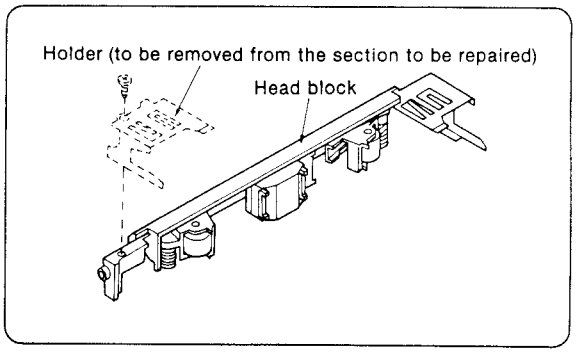


Fig. 3

※ Head azimuth adjustment is unnecessary.

■ PROCEDURES FOR DISASSEMBLY OF THE MAIN PARTS ON THE MECHANISM

• How to remove the mechanism

Follow the procedures in Ref. Nos. 1~6 in the Disassembly Instructions. (See pages 5, 6.)
※ After replacing the parts, refer to the notes for assembly. (See page 6.)

• How to remove the head block and pinch roller

1. Follow the procedures in Ref. Nos. 1 and 6 in the Disassembly Instructions, remove the rear cabinet and cassette compartment lid. (See pages 5 and 6.)
2. Remove 6 solders (Head FPC). (See Fig. 4.)
3. Remove 2 screws (❶, ❷) in order to remove the head block. (See Fig. 5.)
4. Remove 2 washers. (See Fig. 6.)
5. Remove 2 springs in order to remove the pinch roller. (See Fig. 7.)

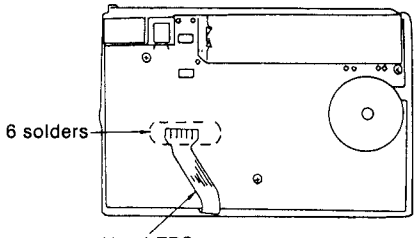


Fig. 4

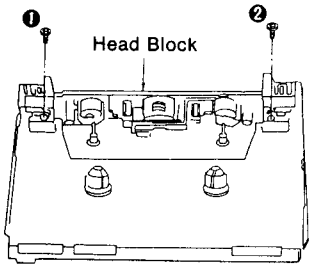


Fig. 5

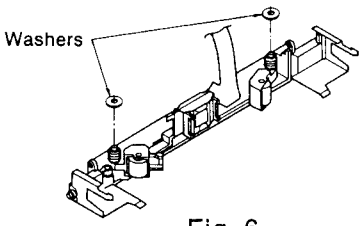


Fig. 6

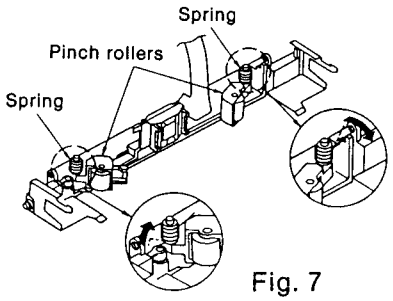


Fig. 7

• How to remove the motor and belt

1. Follow the procedures in Ref. Nos. 1~4 in the Disassembly Instructions. (See page 5.)
2. Remove the washer and motor wheel to remove the belt from the motor pulley. (See Fig. 8.)
3. Remove 2 screws (❶, ❷) in order to remove the motor. (See Fig. 9.)
4. Remove 2 screws (❸, ❹) and then the attachment plate to remove the belt. (See Fig. 10.)

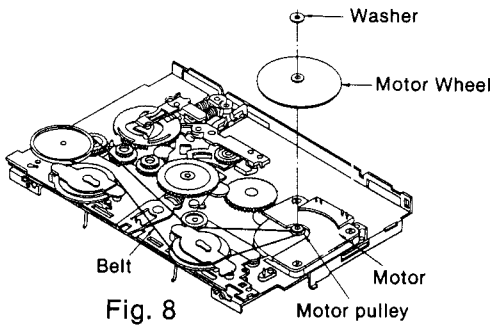


Fig. 8

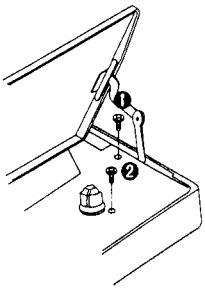


Fig. 9

• How to attach the belt

1. Attach the belt as shown in the figure. (See Fig. 11.)
2. Mount the attachment plate and secure it with 2 screws. (See Fig. 11.)

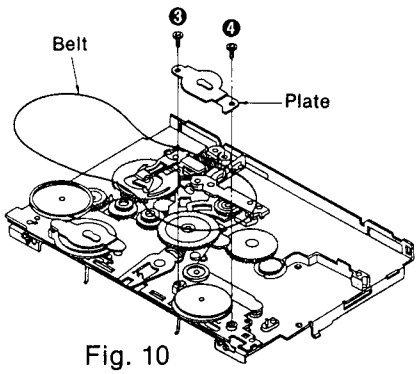


Fig. 10

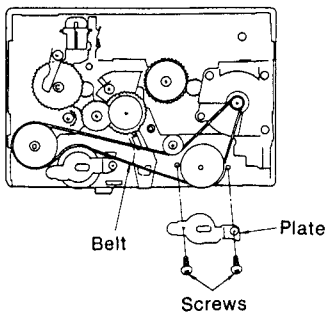


Fig. 11

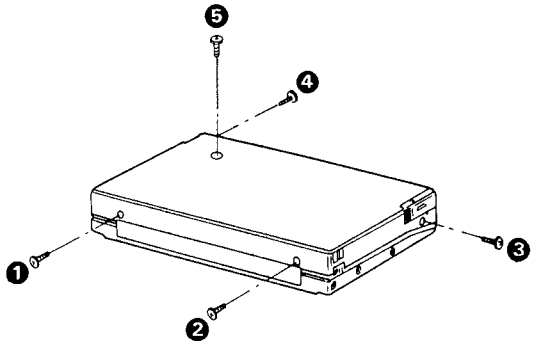
■ DISASSEMBLY INSTRUCTIONS

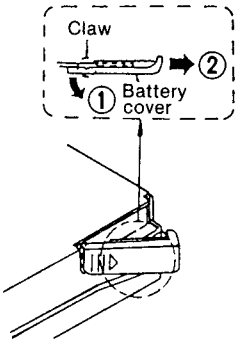
THIS UNIT CONTAINS F.P.C. BE CAREFUL NOT TO CUT OR DAMAGE THE FOIL DURING DISASSEMBLY.

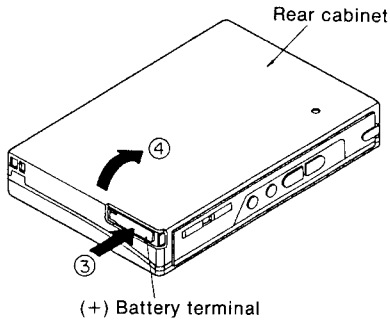
Ref. No. 1	Removal of the rear cabinet

Procedure 1

1. Remove 5 screws (❶~❺).
2. Remove the claw in the direction of arrow ①, and remove the battery cover in the direction of arrow ②.
3. Remove the rear cabinet in the direction of arrow ④ while pushing the (+) battery terminal in the direction of arrow ③.





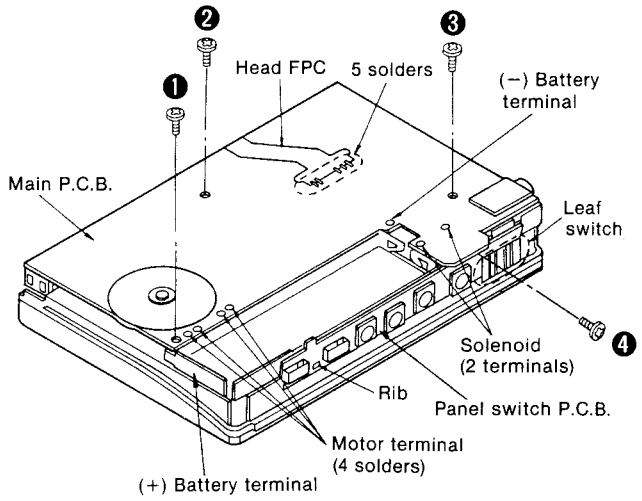


Ref. No. 2	Removal of the main P.C.B. and panel switch P.C.B.

Procedure 1→2

1. Remove 4 screws (❶~❹).
2. Remove 5 solders on the head FPC.
3. Remove 4 solders on the motor terminal.
4. Remove 2 solders on the solenoid terminal.
5. Remove 1 solder on the (−) battery terminal.
6. Remove the rib, and then remove the main P.C.B. and panel switch P.C.B. carefully.

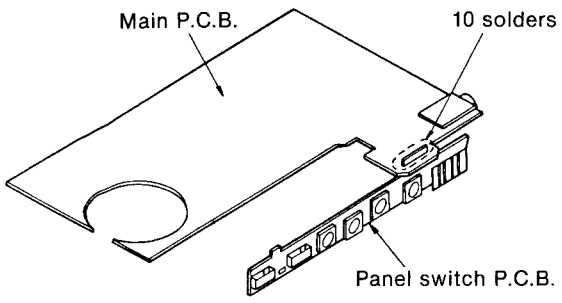
Note: 1. Be careful to handle leaf switch.
2. When the main P.C.B. is removed, the (+) battery terminal will also be removed.



Ref. No. 3	Removal of the panel switch P.C.B.

Procedure 1→2→3

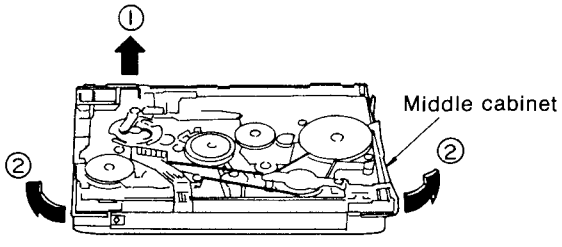
• Remove 10 solders.



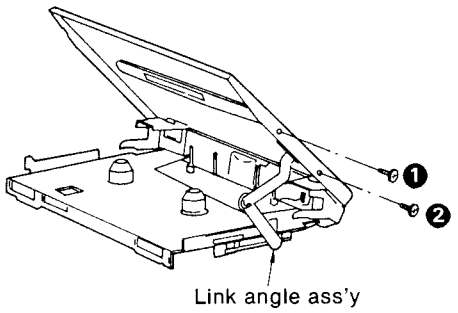
Ref. No. 4	Removal of the middle cabinet

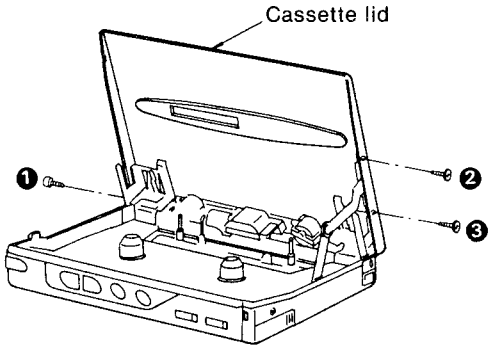
Procedure 1→2→3→4

• Push the middle cabinet in the direction of arrows ② and then remove it in the direction of arrow ①.



Ref. No. 5	Removal of the link angle ass'y	Ref. No. 6	Removal of the cassette lid
Procedure 1→2→3→4→5	• Remove 2 screws (❶, ❷).	Procedure 6	1. Open the cassette lid. 2. Remove 3 screws (❶~❸) in order to remove the cassette lid.

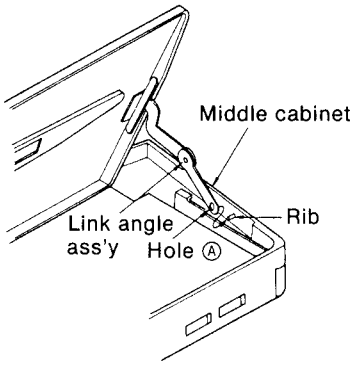




Notes for assembly

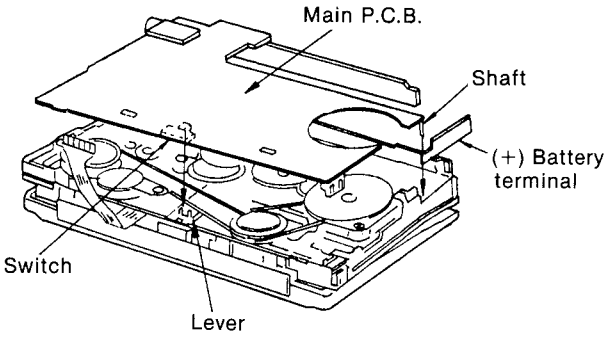
•How to install the middle cabinet

Engage hole Ⓐ of the link angle ass'y in the rib of the middle cabinet.

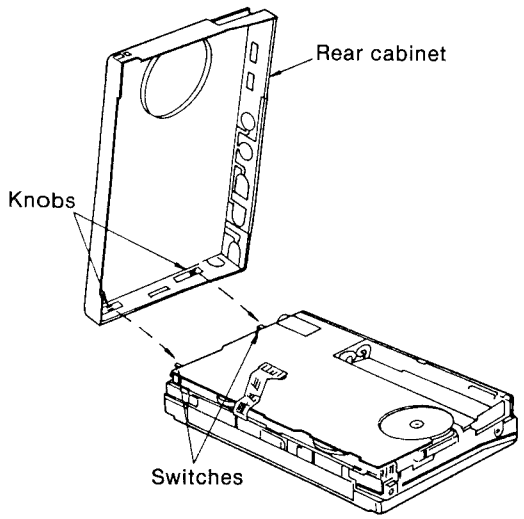


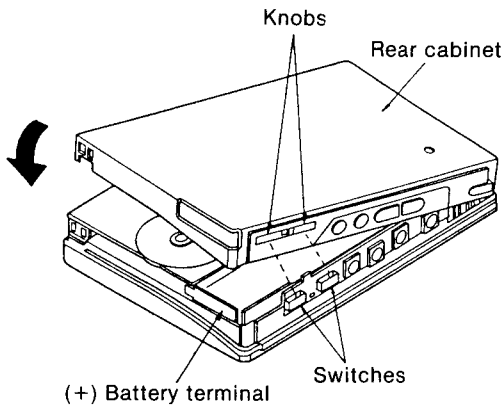
•How to install the main P.C.B.

1. Engage the switch in the lever of the mechanism.
2. Insert the shaft in the (+) battery terminal.



•How to install the rear cabinet





1. Engage the switches in the knobs. (4 points)
2. Install the rear cabinet while pushing the (+) battery terminal.

■ MEASUREMENTS AND ADJUSTMENTS

• ADJUSTMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ADJUSTMENT	
1. Set volume control to maximum. 2. Set Dolby NR Switch to OFF. 3. Set Hold Switch to OFF. 4. Set S-XBS Switch to OFF.	5. Set power source voltage to 1.5V DC. 6. Output of signal generator should not be higher than necessary to obtain an output reading.

• TAPE DECK ADJUSTMENT

ITEM	TEST TAPE	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
Tape speed	QZZCWAT (3kHz, −10dB)	Headphones jack (16Ω) (Refer to Fig. 1)	VR2 (Refer to Fig. 2)	Playback the central part of the tape and adjust VR2 so that the tape speed is as follows. Forward: 2,950±10Hz Reverse: 2,930~3,030Hz Make sure that the frequency range in within ±60Hz for between "Forward" and "Reverse" mode.

Note: The playback head is supplied on the head arm assembly. (See the Mechanical parts location on page 17.)
The assembly requires no adjustment.

• ADJUSTMENT POINT

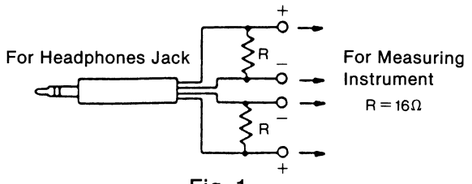


Fig. 1

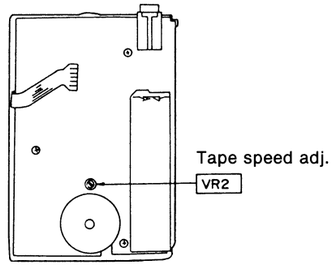


Fig. 2

■ TERMINAL FUNCTIONS OF IC

• IC4 (TB2001FN009E): Mechanism control

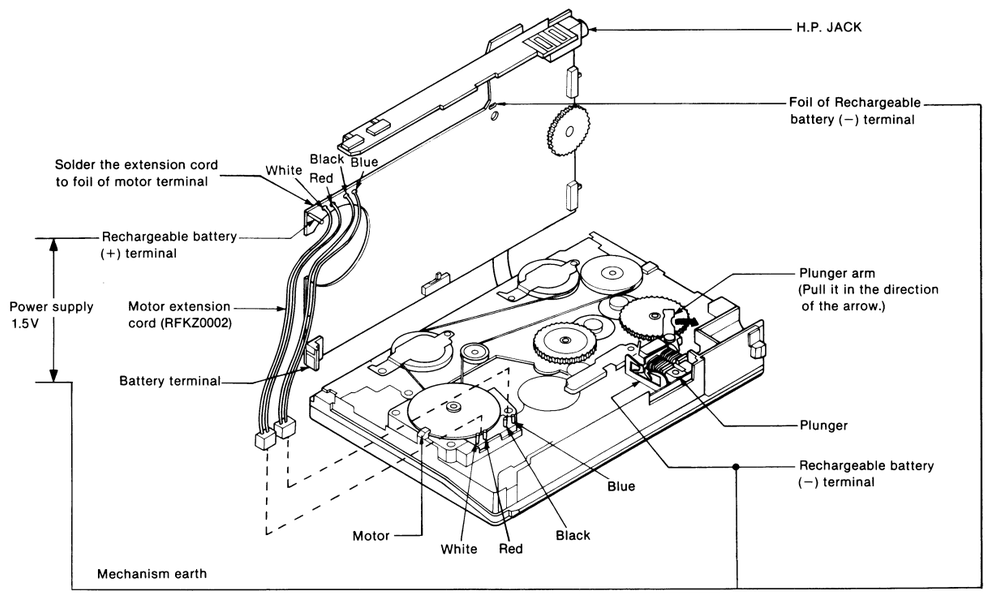
Terminal No.	Terminal Name	I/O	Function
1	GND	—	GND terminal
2	OSC	I/O	System clock terminal fosc=3.2kHz
3	$\overline{CL}$	I	Clear terminal
4	LID	I	Detection signal whether the cassette tape is inserted.
5	REW	I	Mechanism operation (REW) signal. When a high pulse is input: switches to the REV mode.
6	FF	I	Mechanism operation (FF) signal. When a high pulse is input: switches to the FF mode.
7	PLAY	I	Mechanism operation (PLAY) signal. When a high pulse is input: switches to the PLAY mode.
8	STOP	I	Mechanism operation (STOP) signal. When a high pulse is input: switches to the STOP mode.
9	PLAY CHECK	I	Mechanism status detection signal. "H": FWD, "L": REV
10	T.END	I	Tape rotation detection signal. ON signal: Normal condition NO signal: STOP, REV PLAY
11	REV MODE	I	Reverse mode switching signal "H": ⊃ mode, "L": ⊂⊃ mode
12	MEM	I	Forward/Reverse distinction signal input "L": Forward, "H": Reverse
13	DIR CONT	O	Power switch signal.
14	SP	O	Motor speed up signal.
15	CCW	O	Motor control signal for reverse.
16	MUTE	O	AMP muting signal.
17	LED	O	LED drive signal. L: LED ON
18	SOL	O	Solenoid drive signal for playback.
19	MOTOR	O	Motor drive signal (MOTOR ON). L: Motor ON
20	PEE	O	Beep sound output when the unit is controlled remotely.
21	V_{DD}	I	Power supply terminal. DD converter output 2.9V~3V
22	L2	—	Not used, open.
23	L1	O	DC/DC converter drive signal.
24	V_{CC}	I	Power supply terminal.

■ HOW TO CHECK OPERATIONS DURING DISASSEMBLY AND SERVICING

- Check operations during disassembly following the steps.
  1) Set the condition as shown in Fig. 1 in accordance with Ref. Nos. 1 and 2 on Page 5 of the Disassembly Instructions. (DO NOT remove the solders on the head FPC.)
  2) Connect the PCB and motor with the extension cord (RFKZ0002).
  3) Solder the short land with a lead wire and then short-circuit them.
     - Short-circuit across C51 (between IC4 ③ pin and ground.)
     - Short-circuit the short land Ⓐ.

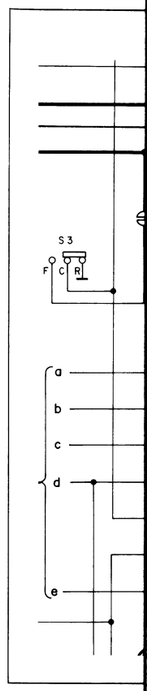
     Note: See next page for the points to be short-circuited.
  4) Connect the rechargeable battery (+) terminal and the rechargeable battery (−) terminal foil to the power source (1.5V) with a lead wire. (See Fig. 1)
  5) Connect the rechargeable battery (−) terminal foil and the rechargeable battery (−) terminal with a lead wire (mechanism earth).
  6) Manually operate the plunger when checking the PLAY/STOP operation.
     - Manually pulling the plunger arm once sets the FWD mode; twice, REV; and, three times, STOP.

     Note: • Operate the plunger manually. Even if the operation buttons are pressed, the plunger will not be actuated.
     - Even if the mechanism unit is switched to the FWD mode in Step 6, the head change-over switch (IC1) will remain in the REV position, so set the REV mode to check the audio.
     - After checking, unsolder the short land Ⓐ and lead wire.



• Short circ

SCHEMAT



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Terminal No.	Terminal Name	I/O	Function
18	SOL	O	Solenoid drive signal for playback.
19	MOTOR	O	Motor drive signal (MOTOR ON). L: Motor ON
20	PEE	O	Beep sound output when the unit is controlled remotely.

Terminal No.	Terminal Name	I/O	Function
21	V_{DD}	I	Power supply terminal. DD converter output 2.9V~3V
22	L2	—	Not used, open.
23	L1	O	DC/DC converter drive signal.
24	V_{CC}	I	Power supply terminal.

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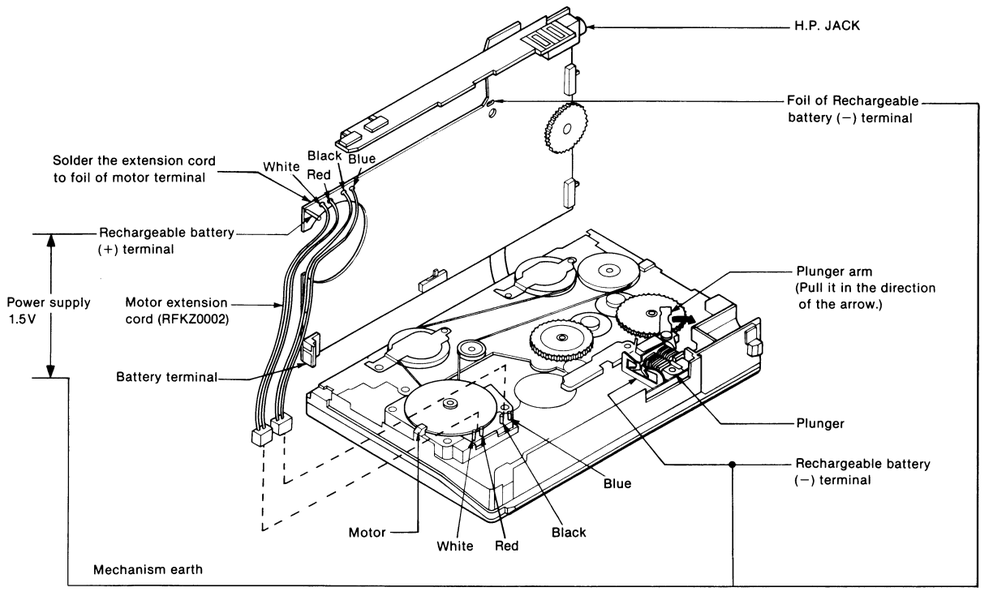
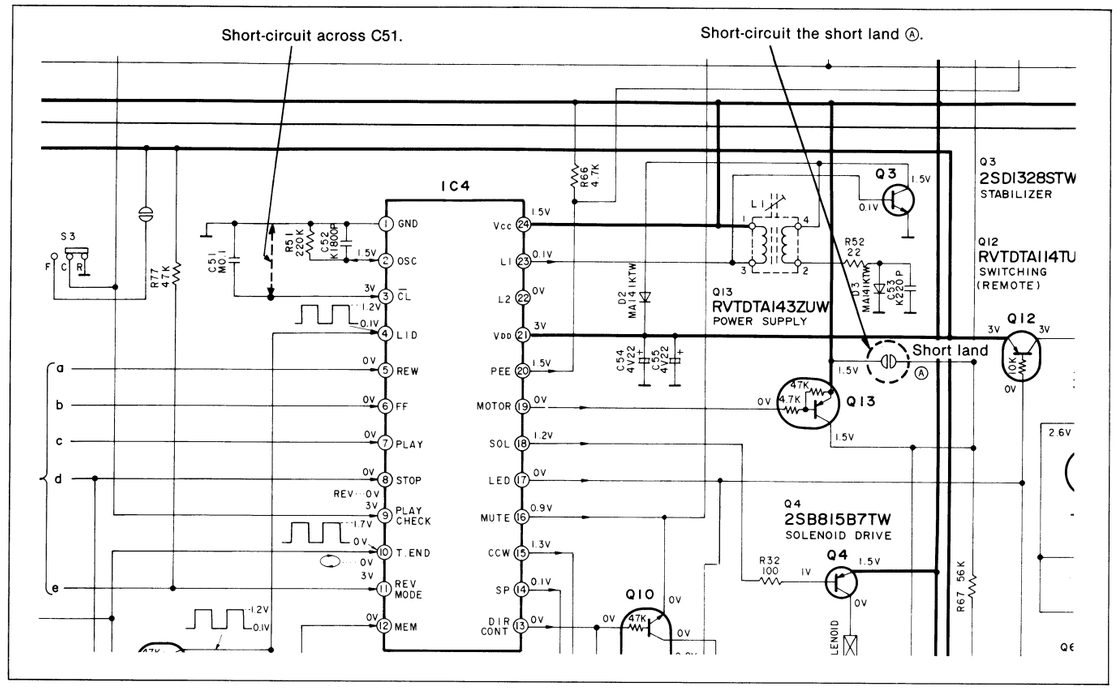
     - Manually pulling the plunger arm once sets the FWD mode; twice, REV; and, three times, STOP.

     Note: • Operate the plunger manually. Even if the operation buttons are pressed, the plunger will not be actuated.
     • Even if the mechanism unit is switched to the FWD mode in Step 6, the head change-over switch (IC1) will remain in the REV position, so set the REV mode to check the audio.
     • After checking, unsolder the short land Ⓐ and lead wire.

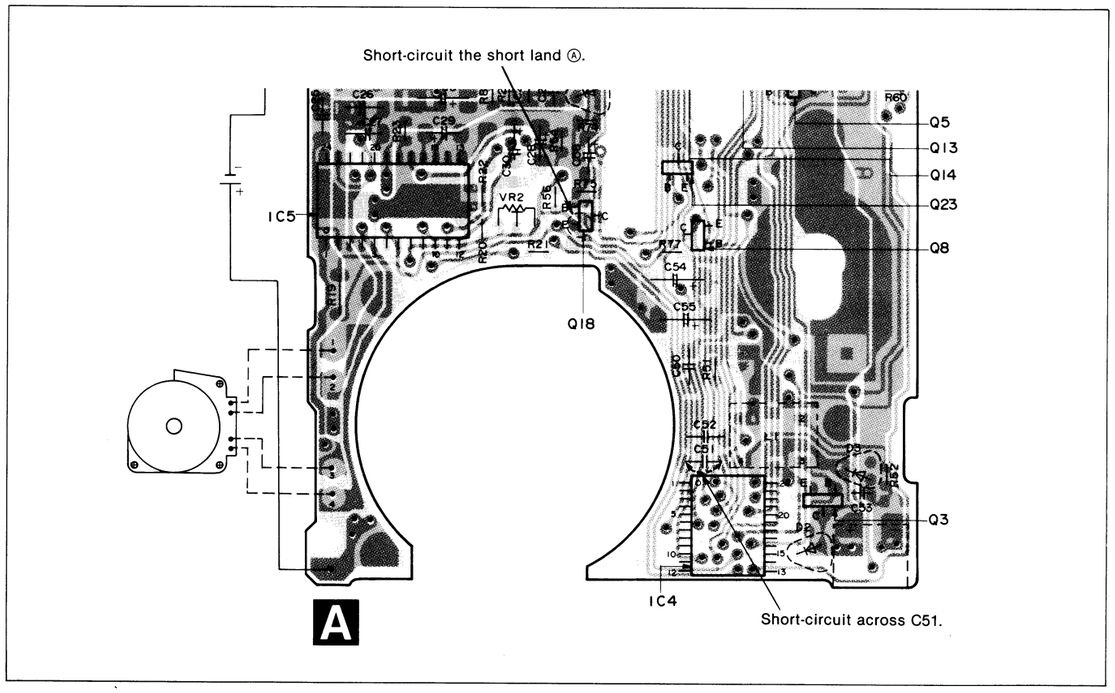


• Short circuit points

SCHEMATIC DIAGRAM



PRINTED CIRCUIT BOARD



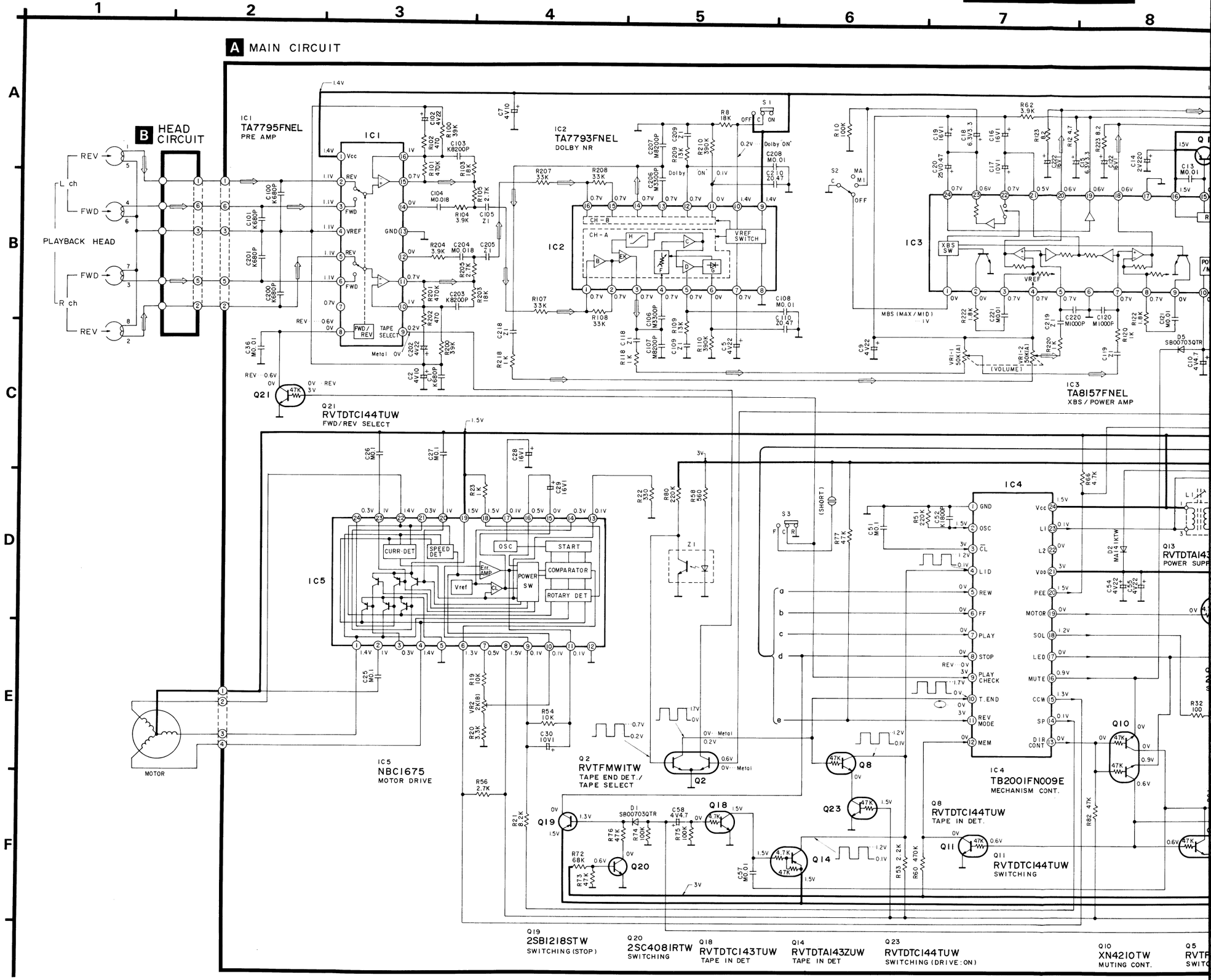
■ SCHEMATIC DIAGRAM
(Parts list on pages 15, 18.)

Notes:

- S1 : Dolby NR switch in "ON" position.
- S2 : S-XBS switch in "OFF" position.
- S3 : FWD/REV switch in "REV" position.
- S4 : REVERSE MODE switch in "↻" position.
- S5 : STOP switch in "OFF" position.
- S6 : PLAY/DIR switch in "OFF" position.
- S7 : FF switch in "OFF" position.
- S8 : REW switch in "OFF" position.
- S9 : HOLD switch in "OFF" position.
- S10-1 : Leaf switch (open) in "OFF" position.
- S10-2 : Leaf switch (metal) in "OFF" position.
- VR1 : Volume control VR.
- VR2 : Tape speed adj. VR.
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
  No mark...Playback
- Battery current: No signal.....174mA (VR: MIN)
  Maximum output.....186mA (VR: MAX)

- **This schematic diagram may be modified at any time with the development of new technology.**

≻ ≺ ...⊕ B LINE
⟹ ...PLAYBACK SIGNAL



2 3 4 5 6 7 8 9 10 11 12

A MAIN CIRCUIT

IC1
TA7795FNEL
PRE AMP

IC2
TA7793FNEL
DOLBY NR

Q1
2SB815B7TW
POWER SUPPLY

IC3
TA8157FNEL
XBS / POWER AMP

J1
HEADPHONES
(Ø3.5, 16Ω)

BATTERY CASE
2V820
DC IN 1.5V
DC 1.5V
BATT. "AA" SIZE x 1

RECHARGEABLE
BATTERY (RP-BP62EY)
DC 1.2V

Q21
RVTDTC144TUW
FWD/REV SELECT

IC5
NBC1675
MOTOR DRIVE

Q2
RVTFMW1TW
TAPE END DET./
TAPE SELECT

IC4
TB2001FN009E
MECHANISM CONT.

Q8
RVTDTC144TUW
TAPE IN DET.

Q11
RVTDTC144TUW
SWITCHING

Q13
RVTDTA143ZUW
POWER SUPPLY

Q4
2SB815B7TW
SOLENOID DRIVE

Q3
2SD1328STW
STABILIZER

Q12
RVTDTA114TUW
SWITCHING
(REMOTE)

Q22
RVTDTC114 YUW
SWITCHING
(REMOTE)

Q6
RVTFMA5TW
SWITCHING
(REMOTE)

Q9
2SC4081RTW
LED DRIVE

C OPERATION SWITCH CIRCUIT

(OPEN/CLOSE) SIO-1
(NOR/METAL) SIO-2
S7 (FF)
D4 LN1261CTR
(OPR/BATT)
S9 (HOLD)
S4 (REV MODE)
S5 (STOP)
S6 (PLAY/DIR)
S8 (REW)

Q19
2SB1218STW
SWITCHING (STOP)

Q20
2SC4081RTW
SWITCHING

Q18
RVTDTC143TUW
TAPE IN DET

Q14
RVTDTA143ZUW
TAPE IN DET

Q23
RVTDTC144TUW
SWITCHING (DRIVE: ON)

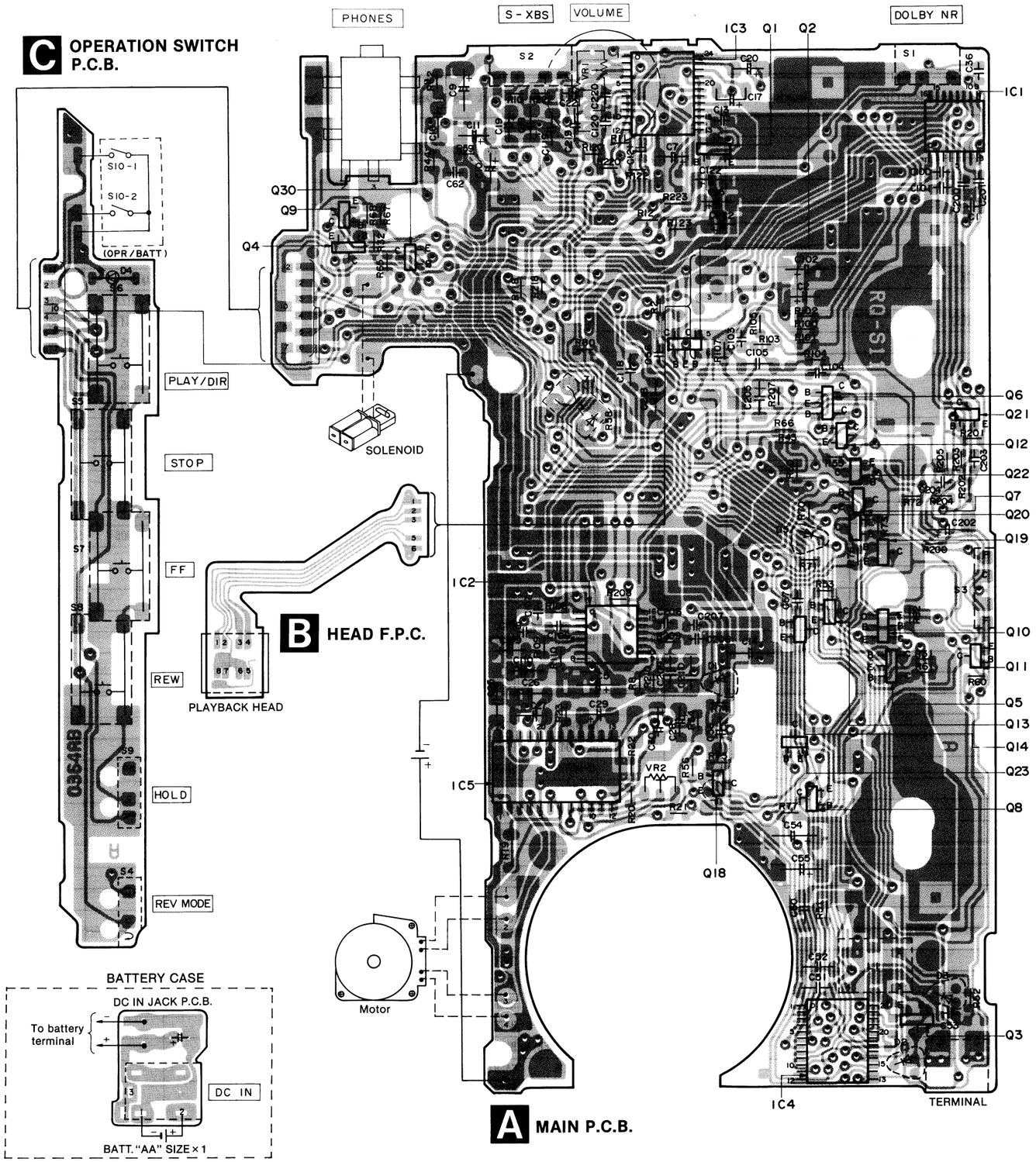
Q10
XN4210TW
MUTING CONT.

Q5
RVTFMG6TW
SWITCHING

Q30
RVTDTA114TUW
LED DRIVE

Q7
2SB1218STW
OPEN/CLOSE DET.

■ PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



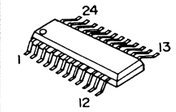
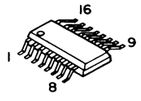
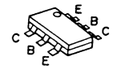
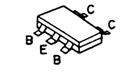
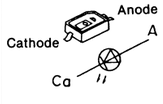
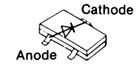
Notes:

This diagram shows a front view of the IC mounting surface.

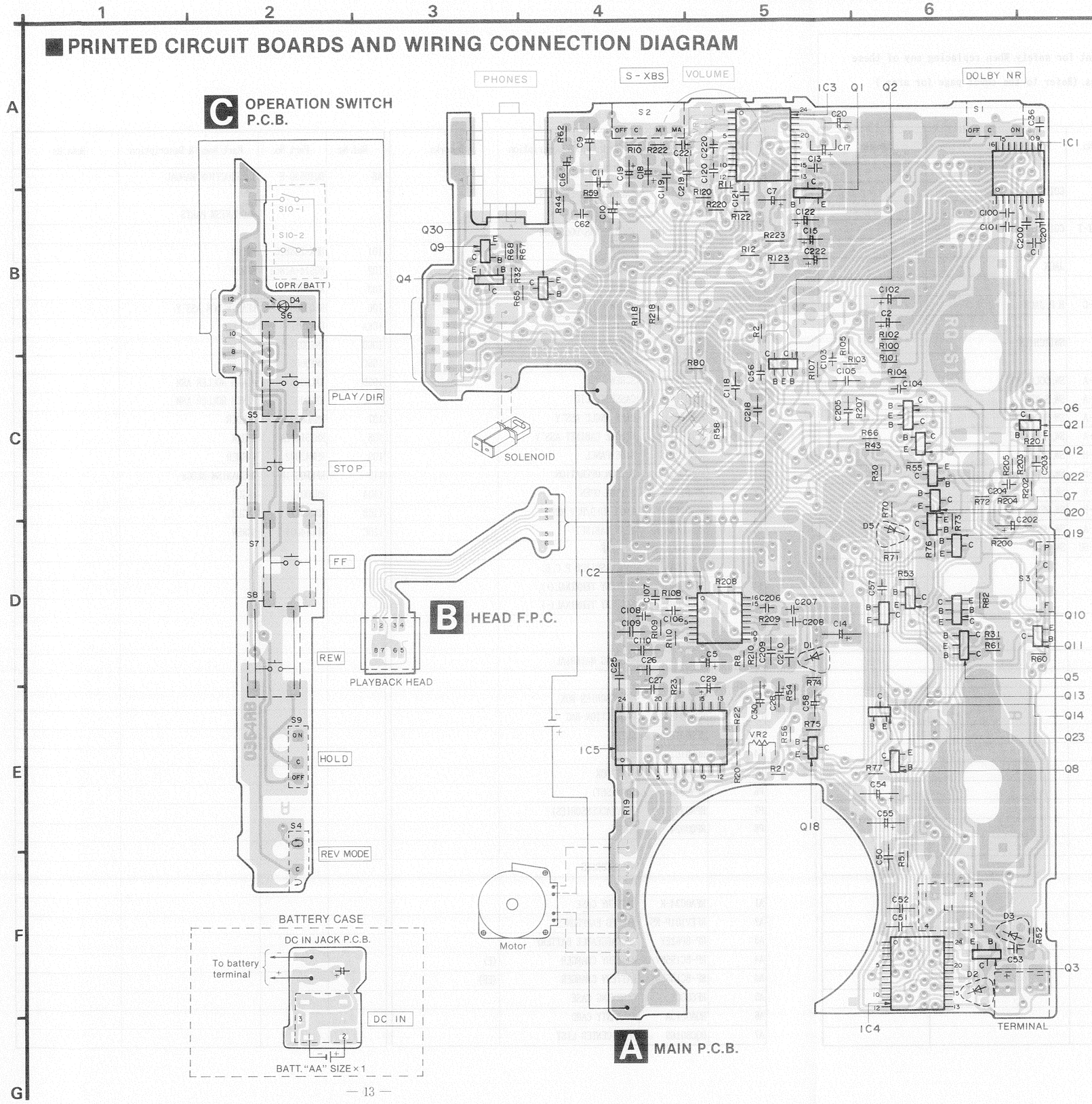
1. The circuit shown in ( ) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in ( ) on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (•) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.
4. —— : Chip resistor
5. ▬ : Chip jumper (0Ω)

• This circuit board diagram may be modified at any time with the developement of new technology.

■ TERMINAL GUIDE OF IC'S, TRANSISTORS & DIODES

NBC1675 TA8157FNEL TB2001FN009E 	TA7793FNEL TA7795FNEL 
XN4210TW 	RVTFMW1TW RVTFMA5TW RVTFMG6TW 
	2SB815B7TW 2SB1218STW 2SC4081RTW 2SD1328STW RVTDTA114TUW RVTDTC114YUW RVTDTA143ZUW RVTDTC143TUW RVTDTC144TUW
LN1261CTR 	MA141KTW SB00703QTR 

■ PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



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• This circuit board diagram may be modified at any time with the developement of new technology.

■ TERMINAL GUIDE OF IC'S, TRANSISTORS & DIODES

NBC1675 TA8157FNEL TB2001FN009E	TA7793FNEL TA7795FNEL
XN4210TW	RVTFMW1TW RVTFMA5TW RVTFMG6TW
	2SB815B7TW 2SB1218STW 2SC4081RTW 2SD1328STW RVTDTA114TUW RVTDTC114YUW RVTDTA143ZUW RVTDTC143TUW RVTDTC144TUW
LN1261CTR	MA141KTW SB00703QTR

■ REPLACEMENT PARTS LIST

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

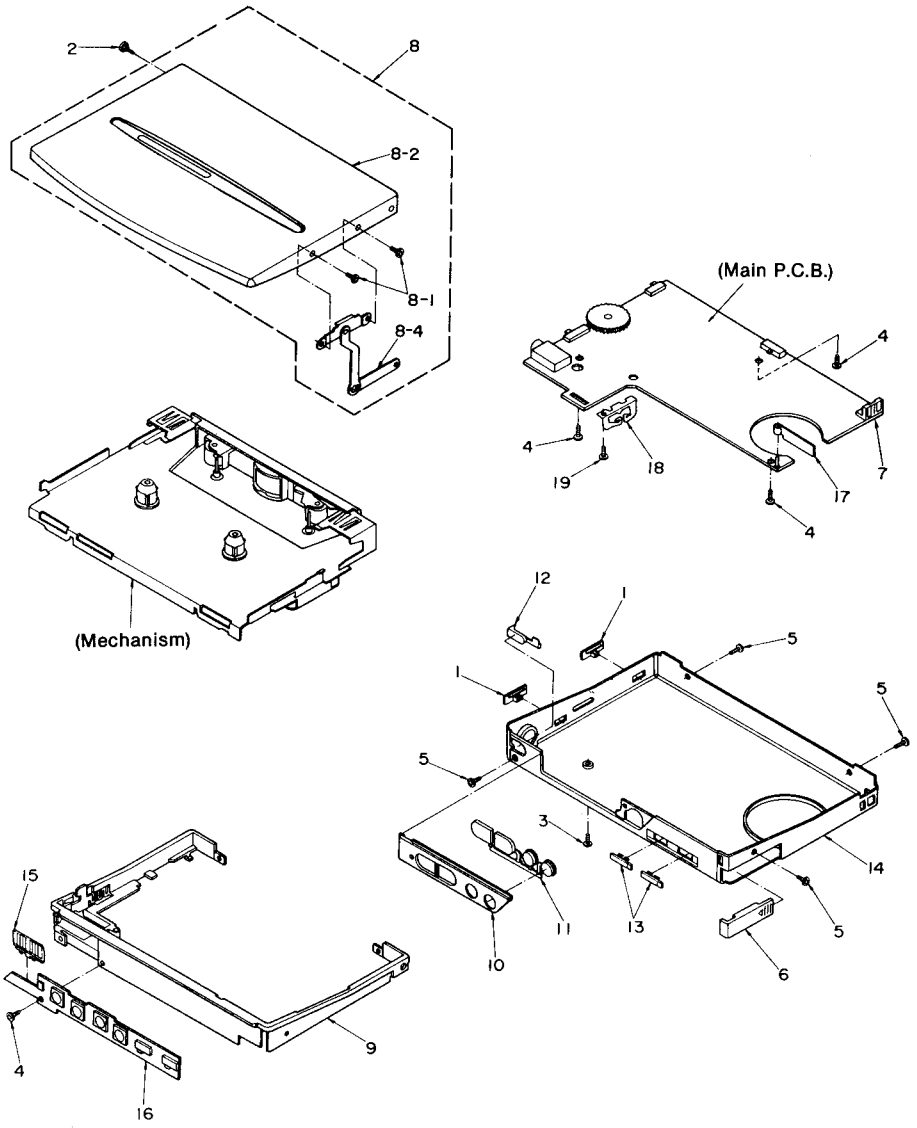
Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)	
IC1	TA7795FNEL	IC, PRE AMP	
IC2	TA7793FNEL	IC, DOLBY NR	
IC3	TA8157FNEL	IC, XBS/POWER AMP	
IC4	TB2001FN009E	IC, MECHANISM CONTROL	
IC5	NBC1675	IC, MOTOR DRIVE	
		TRANSISTOR(S)	
Q1	2SB815B7TW	TRANSISTOR	
Q2	RVTFMW1TW	TRANSISTOR	
Q3	2SD1328STW	TRANSISTOR	
Q4	2SB815B7TW	TRANSISTOR	
Q5	RVTFMG6TW	TRANSISTOR	
Q6	RVTFMA5TW	TRANSISTOR	
Q7	2SB1218STW	TRANSISTOR	
Q8	RVTDTC144TUW	TRANSISTOR	
Q9	2SC4081RTW	TRANSISTOR	
Q10	XN4210TW	TRANSISTOR	
Q11	RVTDTC144TUW	TRANSISTOR	
Q12	RVTDTA114TUW	TRANSISTOR	
Q13, 14	RVTDTA143ZUW	TRANSISTOR	
Q18	RVTDTC143TUW	TRANSISTOR	
Q19	2SB1218STW	TRANSISTOR	
Q20	2SC4081RTW	TRANSISTOR	
Q21	RVTDTC144TUW	TRANSISTOR	
Q22	RVTDTC114YUW	TRANSISTOR	
Q23	RVTDTC144TUW	TRANSISTOR	
Q30	RVTDTA114TUW	TRANSISTOR	
		DIODE(S)	
D1	SB00703QTR	DIODE	
D2, 3	MA141KTW	DIODE	
D4	LN1261CTR	DIODE	
D5	SB00703QTR	DIODE	
		VARIABLE RESISTOR(S)	
VR1	EVUT0BA01A54	V. R. VOLUME CONTROL	
VR2	RVNDA23B1W-F	V. R. TAPE SPEED ADJ.	
		COMPONENT COMBINATION(S)	
Z1	RVSGP2S24BC	COMPONENT COMBINATION	

Ref. No.	Part No.	Part Name & Description	Remarks
		COIL(S)	
L1	RL09U008T-T	COIL	
		JACK	
J1	RJJ35T02-C	H. P. JACK	
		SWITCH(ES)	
S1	RSS2A003-A	SW, DOLBY NR	
S2	RSS3A001-A	SW, S-XBS	
S3	RSS2A002-A	SW, FWD/REV	
S4	RSS2A003-A	SW, REV MODE	
S5	RSP1A009-H	SW, STOP	
S6	RSP1A009-H	SW, PLAY/DIR	
S7	RSP1A009-H	SW, FF	
S8	RSP1A009-H	SW, REW	
S9	RSS2A003-A	SW, HOLD	
S10	RSH1B001-6U	SW, LEAF	

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RGV0034-K1	KNOB, S-XBS/DOLBY NR	
2	RHD14008-K	SCREW	
3	RHE5079YA	SCREW	
4	RHE51192A	SCREW	
5	RHQ0003-K	SCREW	
6	RKK0018-K	BATTERY COVER	
7	RJH9201	TERMINAL	
8	RYF0062-K	CASSETTE LID ASS'Y	
8-1	RHE5097ZA	SCREW	
8-2	RKF0117-K	CASSETTE LID	
8-4	RXM0002	LINK ANGLE ASS'Y	
9	RYK0111	MIDDLE CABINET ASS'Y	
10	RGK0220-S	SIDE PANEL	
11	RGU0303-S	BUTTON, OPERATION	
12	RGU0312-S	BUTTON, OPEN	
13	RGV0015-K	KNOB, HOLD/REV MODE	
14	RKS0069A-K	REAR CABINET	
15	RSH1B001-6U	SW, LEAF	
16	RJB0364A	PANEL SWITCH P. C. B.	
17	RJC99003-1	BATTERY TERMINAL (+)	
18	RJC99004-2	BATTERY TERMINAL (-)	
19	RHQ0013	SCREW	
		PACKING MATERIAL	
P1	RPQ0096	ACCESSORIES BOX	
P2	RPF0048-1	PROTECTION BAG	
P3	RPH0018-2	SHEET	
P4	RPK0101	CASE	
P5	RPK0160	GIFT BOX	
P6	RPN0346	TRAY (SET)	
P7	RPN0347	TRAY (ACCESSORIES)	
P8	RPQ0024	SHEET	
		ACCESSORIES	
A1	RFA0034-K	BATTERY CASE	
A2	RFEV101P-KS	STEREO EARPHONES	
A3	RP-BP62EY	RECHARGEABLE BATTERY	
A4	RP-BC155EY-0	BATTERY CHARGER	(E)
A4	RP-BC155EBYA	BATTERY CHARGER	(EB)
A5	RFC0006	CARRYING CASE	
A6	RQA0013A	WARRANTY CARD	
A7	RQCB0169	SERVICENTER LIST	

Ref. No.	Part No.	Part Name & Description	Remarks
A8	RQT0530-E	INSTRUCTION MANUAL	
		MECHANISM PARTS	
101	HPX-26NB1C	MOTOR	
102	XQS14+A18FZ	SCREW	
103	RDV0003	BELT	
106	RXQ0006	HEAD BLOCK ASS'Y	
106A	RNW101ZA	WASHER	
106B	RME0004-1	SPRING	
106C	RME0005	SPRING	
106D	RXL0004	PINCH ROLLER ARM	
106E	RXL0005	PINCH ROLLER ARM	
107	RMA0023	HOLDER	
108	RHE5147ZA	SCREW	
109	RHW42002	WASHER	
110	RFKRQS11E	MECHANISM BLOCK	
110A	RMQ0011	ANGLE	
110B	RMQ0012	ANGLE	
110C	RHD14006	SCREW	

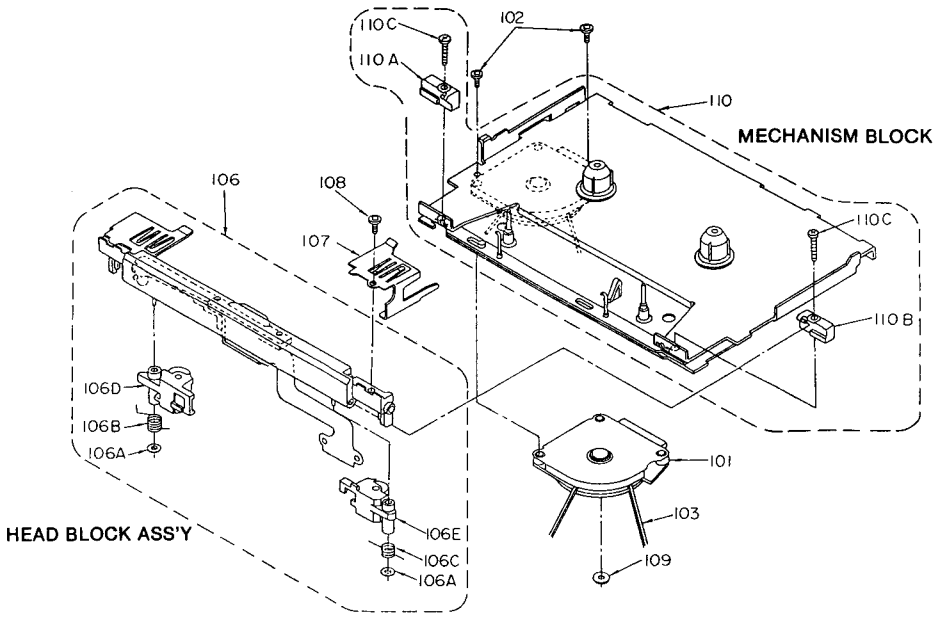
■ CABINET PARTS LOCATION



■ MECHANICAL PARTS LOCATION

	FWD & REV mode
Wow and flutter	0.25% (WRMS)
Pressure of pinch roller	120±20g
Take-up tension	More than 60g
Playback torque	20^{+15}_{-5} g•cm
FF/REW torque	More than 60g•cm

The parts enclosed in the dotted boxes are supplied as a block assembly. Therefore, they are not supplied separately.



■ RESISTORS & CAPACITORS

Notes : * Capacity valuse are in microfarads (uF) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
* Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

Ref. No.	Part No.	Values & Remarks
		RESISTORS
R2	ERJ3GEYJ104V	1/16W 100K
R8	ERJ3GEYJ183V	1/16W 18K
R10	ERJ3GEYJ104V	1/16W 100K
R11	ERJ3GEYJ154V	1/16W 150K
R12	ERJ6GEYJ4R7V	1/10W 4.7
R19	RRSN15J103UE	1/20W 10K
R20	ERJ3GEYJ332V	1/16W 3.3K
R21	ERJ3GEYJ822V	1/16W 8.2K
R22	ERJ3GEYJ331V	1/16W 330
R23	ERJ3GEYJ102V	1/16W 1K
R30	ERJ3GEYJ683V	1/16W 68K
R31	ERJ3GEYJ224V	1/16W 220K
R32	ERJ3GEYJ101V	1/16W 100
R43	ERJ3GEYJ102V	1/16W 1K
R44	ERJ3GEYJ101V	1/16W 100
R51	ERJ3GEYJ224V	1/16W 220K
R52	ERJ3GEYJ220V	1/16W 22
R53	ERJ3GEYJ222V	1/16W 2.2K
R54	ERJ3GEYJ103V	1/16W 10K
R55	ERJ3GEYJ822V	1/16W 8.2K
R56	ERJ3GEYJ272V	1/16W 2.7K
R58	ERJ3GEYJ561V	1/16W 560
R59	ERJ3GEYJ155V	1/16W 1.5M
R60	ERJ3GEYJ474V	1/16W 470K
R61	ERJ3GEYJ224V	1/16W 220K
R62	ERJ3GEYJ392V	1/16W 3.9K
R65	ERJ3GEYJ222V	1/16W 2.2K
R66	ERJ3GEYJ472V	1/16W 4.7K
R67	ERJ3GEYJ563V	1/16W 56K
R68	ERJ3GEYJ393V	1/16W 39K
R70	ERJ3GEYJ474V	1/16W 470K
R71	ERJ3GEYJ473V	1/16W 47K
R72	ERJ3GEYJ683V	1/16W 68K
R73	ERJ3GEYJ473V	1/16W 47K
R74, 75	ERJ3GEYJ104V	1/16W 100K
R76, 77	ERJ3GEYJ473V	1/16W 47K
R80	ERJ3GEYJ224V	1/16W 220K
R82	ERJ3GEYJ473V	1/16W 47K
R100	ERJ3GEYJ393V	1/16W 39K
R101	ERJ3GEYJ474V	1/16W 470K
R102	ERJ3GEYJ471V	1/16W 470
R103	ERJ3GEYJ183V	1/16W 18K
R104	ERJ3GEYJ392V	1/16W 3.9K
R105	ERJ3GEYJ272V	1/16W 2.7K
R107, 108	ERJ3GEYJ333V	1/16W 33K
R109	ERJ3GEYJ133V	1/16W 13K
R110	ERJ3GEYJ394V	1/16W 390K
R118	ERJ3GEYJ102V	1/16W 1K
R120	ERJ3GEYJ102V	1/16W 1K
R122	ERJ3GEYJ182V	1/16W 1.8K
R123	ERJ6GEYJ8R2V	1/10W 8.2
R200	ERJ3GEYJ393V	1/16W 39K
R201	ERJ3GEYJ474V	1/16W 470K
R202	ERJ3GEYJ471V	1/16W 470
R203	ERJ3GEYJ183V	1/16W 18K
R204	ERJ3GEYJ392V	1/16W 3.9K
R205	ERJ3GEYJ272V	1/16W 2.7K
R207, 208	ERJ3GEYJ333V	1/16W 33K
R209	ERJ3GEYJ133V	1/16W 13K
R210	ERJ3GEYJ394V	1/16W 390K
R218	ERJ3GEYJ102V	1/16W 1K
R220	ERJ3GEYJ102V	1/16W 1K
R222	ERJ3GEYJ182V	1/16W 1.8K
R223	ERJ6GEYJ8R2V	1/10W 8.2
		CAPACITORS
C1	ECUV1H681KBV	50V 680P
C2	RCSX0GY106LE	4V 10U
C5	ECST0GB226RR	4V 22U
C7	RCSX0GY106LE	4V 10U
C9	ECST0GB226RR	4V 22U
C10	ECST0GY475LL	4V 4.7U
C11	RCSX0GY106LE	4V 10U
C13	ECUV1E103MBV	25V 0.01U
C14	ECA0DV221FZ	2V 220U
C15	ECST0JY335LL	6.3V 3.3U
C16	ECST1CY105LL	16V 1U
C17	RCSX1AA105LE	10V 1U
C18	ECST0JY335LL	6.3V 3.3U
C19	ECST1CY105LL	16V 1U
C20	ECST1EY474LL	25V 0.47U
C25-27	ECUV1C104MBM	16V 0.1U
C28, 29	ECST1CY105LL	16V 1U
C30	RCSX1AA105LE	10V 1U
C36	ECUV1E103MBV	25V 0.01U
C50	ECUV1C105ZFM	16V 1U
C51	ECUV1C104MBM	16V 0.1U
C52	ECUV1H182KCM	50V 1800P
C53	ECUV1H221KV	50V 220P
C54, 55	ECST0GB226RR	4V 22U
C56	ECUV1C104ZFV	16V 0.1U
C57	ECUV1E103MBV	25V 0.01U
C58	ECST0GY475LL	4V 4.7U
C62	ECUV1E223MBV	25V 0.022U
C100, 101	ECUV1H681KBV	50V 680P
C102	ECST0GB226RR	4V 22U
C103	ECUV1E822KBV	25V 8200P
C104	ECUV1C183MBV	16V 0.018U
C105	ECUV1C105ZFM	16V 1U
C106	ECUV1H332MBV	50V 3300P
C107	ECUV1E822MBV	25V 8200P
C108	ECUV1E103MBV	25V 0.01U
C109	ECUV1C105ZFM	16V 1U
C110	ECUV1C474ZFM	16V 0.47U
C118, 119	ECUV1C105ZFM	16V 1U
C120	ECUV1H102MBV	50V 1000P
C121	ECUV1E103MBV	25V 0.01U
C122	ECST1CY105LL	16V 1U
C200, 201	ECUV1H681KBV	50V 680P
C202	ECST0GB226RR	4V 22U
C203	ECUV1E822KBV	25V 8200P
C204	ECUV1C183MBV	16V 0.018U
C205	ECUV1C105ZFM	16V 1U
C206	ECUV1H332MBV	50V 3300P
C207	ECUV1E822MBV	25V 8200P
C208	ECUV1E103MBV	25V 0.01U
C209	ECUV1C105ZFM	16V 1U
C210	ECUV1C474ZFM	16V 0.47U
C218, 219	ECUV1C105ZFM	16V 1U
C220	ECUV1H102MBV	50V 1000P
C221	ECUV1E103MBV	25V 0.01U
C222	ECST1CY105LL	16V 1U

Printed in Japan
H900211500 YU/TM